PROJECT NUMBER: 1313
PROJECT TITLE: Semiworks Process Development
PROJECT LEADER: W. G. Sanderson
PERIOD COVERED: July, 1988

A. **Objective**: Provide engineering and technical support to improve the performance and efficiency of the Semiworks operation.

B. **Results**:

Kaymich Flavor Dispensing Unit (Nguyen/Osmalov) - The first Kaymich Flavor Dispensing Unit was received and installed in Semiworks make/pack on a MK9/MAXS cigarette making module configured to produce Marlboro Lights type cigarettes. After the second calibration of the unit, preliminary analytical results indicated a good correlation between the set application dosage and actual lab testing. This equipment is designed to apply menthol and/or other flavors directly to the cigarette paper during cigarette production. The application rate variation for this set-up has been quoted by the manufacturer to be no more than +/- 0.15 mg menthol/cigarette.

Second Aftercut Flavor Application System (Nguyen) - Work continued on the second aftercut flavor application system/mixing cylinder conversion project for the Semiworks primary. Detailed drawings of the support frame work for the explosion suppression system, supplied by Rayco Industries, have been forwarded to Fenwal for approval. A purchase order has been issued to Oscar Fields for the fabrication and installation of the conveyor bypass system around the first aftercut cylinder.

Five Over Five Cartoner - Semiworks Make/Pack (Osmalov) - The five over five cartoner machine, designed by PM USA Engineering, was successfully demonstrated at Raynor & Adams machine shop and then shipped to the Semiworks make/pack. This machine is a modified boxer designed to automatically feed five test packs and five control packs into a carton for processing mail out tests. It has been set and outfitted with utilities and will be tested with make/pack personnel early next month.

C. **Plans**: Continue with the mixing cylinder/second aftercut flavor application system conversion. Support product development on the Kaymich Flavor Dispensing Unit. Transfer the technology developed for the TLA primary process to the Semiworks small scale primary operation.

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